

# STATE

## INDUSTRIES OF THE FUTURE



### SUCCESS STORY

#### IOWA

##### SEP SPECIAL PROJECTS GRANTS

FY 2001 - \$200,000

FY 2002 - \$200,000

##### FOCUS INDUSTRIES

Agriculture

Chemicals

Metal Casting

##### PARTICIPATING ORGANIZATIONS

Iowa Department of Natural Resources

Iowa State University Extension

Center for Industrial Research and Service - Iowa State University

Iowa Energy Center

Ames Laboratory

Center for Sustainable Environmental Technologies

Biorenewable Resources Consortium

Metal Casting Center - University of Northern Iowa

Industrial Assessment Center - Iowa State University

### IMPLEMENTING INDUSTRIES OF THE FUTURE IN IOWA

The Office of Energy Efficiency and Renewable Energy's Industrial Technologies program is working with partners from the State of Iowa to expand the Iowa Industries of the Future (IIOF). The initiative is considered a success because it has 1) a strong champion, 2) an extraordinary research community at Ames Laboratory and at centers in the state like the Center for Sustainable Environmental Technologies, the Biorenewable Resources Consortium, the Center for Crops Utilization Research, and the Plant Sciences Institute, 3) the extensive involvement of Iowa State University Extension to engage the State of Iowa and to disseminate research results and BestPractices materials, and 4) the ability to engage industry leaders, as was done with the metal casters of the state, who then developed an Iowa vision and roadmap.

#### STRATEGY

The goal of the Iowa Industries of the Future is to create a self-sustaining, industry-led consortia that includes research institutions and state government executives. To achieve this objective, IIOF will engage constituents and facilitate communication between these individuals and groups. The initiative will then facilitate the writing of a vision and roadmap and identify resources to address industry needs for research and best practices. Finally, the IIOF will coach the consortia on achieving sustainability.

#### INDUSTRIES OF THE FUTURE IN IOWA

INDUSTRIES	EMPLOYEES	WAGES (\$1,000)	VALUE OF SHIPMENTS (\$1,000)
AGRICULTURE	135,735	533,525	10,811,565
ALUMINUM	N/A	N/A	N/A
CHEMICAL	7,100	303,482	4,507,000
FOREST PRODUCTS	15,150	470,924	2,710,728
GLASS	N/A	N/A	N/A
METAL CASTING	4,323	144,096	571,800
MINING	2,813	75,505	489,000
PETROLEUM	N/A	N/A	N/A
STEEL	236	6,794	21,215

## STRATEGY, CONTINUED

Each of the following participants plays an important role in the State IOF strategy:

- Iowa Department of Natural Resources - provides guidance and administrative leadership, and contact with state government executives.
- Iowa State University Extension - provides senior leadership through IOF champion Stan Johnson; also facilitates meetings and disseminates BestPractices information/materials.
- Center for Industrial Research and Service, Iowa State University (ISU) - manages the program; is the main interface with industry participants for organizing IIOF sectors and providing BestPractices assistance.
- Iowa Energy Center - provides financial support in the form of a cash match each year; also instrumental in guiding energy-related activities.
- Ames Laboratory - primary link into the research community in the federal laboratory system; participates on the steering committees for each industry sector.
- Center for Sustainable Environmental Technologies - provides guidance in the agriculture sector; hosts the weekly meetings of the leadership team.
- Biorenewable Resources Consortium - provides guidance in the agriculture sector; is co-sponsoring the IIOF symposium and the IIOF Agriculture Update Newsletter.
- Metal Casting Center, University of Northern Iowa (UNI) - led the activities that produced the vision and roadmap for the Iowa Metal Casting industry; is leading the follow-through efforts in pursuit of the vision.
- Industrial Assessment Center, Iowa State University - provides on-site audits (energy, waste, productivity) for qualifying IOF-sector industries.

## PROJECTS/ACHIEVEMENTS

- Arranged for the signing of a Memorandum of Understanding between the State of Iowa and DOE by Governor Tom Vilsack and Denise Swink on April 19, 2001.
- Published the IIOF Metal Casting Vision and Roadmap in October 2001.
- Integrated Iowa State University Extension into the process of gathering and communicating public input; also involved the extension office in communicating BestPractices information and research breakthroughs.
- Conducted an Industrial Assessment Center audit at the John Deere Foundry in Waterloo, IA.

## LEVERAGING OPPORTUNITIES

In addition to activities funded through SEP Special Projects grants, a number of activities/funding/relationships have emerged as a result of the State IOF:

- One hundred county extension education directors in the 99 Iowa extension offices are discussing and recruiting participation in IIOF.
- Numerous Iowa State University Extension agriculture field specialists are spreading the IOF message and disseminating IOF materials.
- The Industrial Assessment Center at ISU is working with the Center for Industrial Research and Service (CIRAS) and the Metal Casting Center at UNI to provide energy audits to Iowa metal casters.
- A meeting was held in March 2002 with representatives from the Iowa Department of Natural Resources, regional Environmental Protection Agency, Metal Casting Center, Iowa Waste Reduction Center, CIRAS, and metal casting industry leaders to explore the possibility of establishing a "Sustainable Industries Agreement" for metal casting in Iowa. If this effort moves forward, it will leverage IOF funds with funds from other government organizations.
- The initiative is providing project management support, in concert with the Iowa Manufacturing Extension Partnership, on the North Star Steel plant-wide assessment.

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